

What is Claimed is:

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B1
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1. A negative ion emitting apparatus comprising:
a DC high-voltage power supply section;
at least one discharge electrode section; and
at least one load resistance section arranged between
said DC high-voltage power supply section and said discharge
electrode section so as to restrict flowing of electrons from
said DC high-voltage power supply section to said discharge
electrode section.

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2. A negative ion emitting apparatus as defined in claim
1, wherein said DC high-voltage power supply section is connected
to said load resistance section and discharge electrode section
through a high-voltage wiring.

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3. A negative ion emitting apparatus as defined in claim
1, wherein said discharge electrode section is constituted by a
needle electrode formed at a distal end thereof with an acute
angle.

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4. A negative ion emitting apparatus as defined in claim
2, wherein said discharge electrode section is constituted by a
needle electrode formed at a distal end thereof with an acute
angle.

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5. A negative ion emitting apparatus as defined in claim
1, wherein the amount of negative ions emitted is varied by
varying a load resistance of said load resistance section.

6. A negative ion emitting apparatus as defined in claim
2, wherein the amount of negative ions emitted is varied by
varying a load resistance of said load resistance section.

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7. A negative ion emitting apparatus as defined in claim
3, wherein the amount of negative ions emitted is varied by
varying a load resistance of said load resistance section.

8. A negative ion emitting apparatus as defined in claim
4, wherein the amount of negative ions emitted is varied by

varying a load resistance of said load resistance section.

9. A negative ion emitting apparatus as defined in claim 1, wherein a plurality of said discharge electrode sections are arranged;

5 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

10 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

10. A negative ion emitting apparatus as defined in claim 2, wherein a plurality of said discharge electrode sections are arranged;

15 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

20 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

11. A negative ion emitting apparatus as defined in claim 3, wherein a plurality of said discharge electrode sections are arranged;

25 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

30 12. A negative ion emitting apparatus as defined in claim 4, wherein a plurality of said discharge electrode sections are arranged;

a distributor is arranged between said discharge

electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

5 said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

13. A negative ion emitting apparatus as defined in claim 5, wherein a plurality of said discharge electrode sections are arranged;

10 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

15 14. A negative ion emitting apparatus as defined in claim 6, wherein a plurality of said discharge electrode sections are arranged;

20 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

25 15. A negative ion emitting apparatus as defined in claim 7, wherein a plurality of said discharge electrode sections are arranged;

30 a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

16. A negative ion emitting apparatus as defined in claim 8, wherein a plurality of said discharge electrode sections are arranged;

a distributor is arranged between said discharge electrode sections and said DC high-voltage power supply section and provided therein with an additional load resistance section; and

said DC high-voltage power supply section and said discharge electrode sections are connected to said distributor.

17. A negative ion emitting method comprising the step of connecting at least one load resistance section between a DC high-voltage power supply section and at least one discharge electrode section, to thereby restrict flowing of electrons from said DC high-voltage power supply section to said discharge electrode section for emission of negative ions from said discharge electrode section.